


```
import java.util.*;
class Student
{
    private String USN;
    private String name;
    private int n;
    private double SGPA = 0;
    private int totalCredits = 0;
    private int credits[];
    private double marks[];
    Scanner in = new Scanner(System.in);
    void accept ()
    {
        System.out.println("Enter USN");
        USN = in.nextLine();
        System.out.println("Enter Name");
        name = in.nextLine();
        System.out.println("Enter number of subjects");
        n = in.nextInt();
        credits = new int[n];
        marks = new double[n];
        System.out.println("Details of the subjects:");
        for (int i = 0; i < n; i++)
        {
            System.out.println("Enter credits" + (i + 1));
            credits[i] = in.nextInt();
        }
    }
}
```


IBM19C8007

Expt. No. Lab Program 2

Date 6/10/2020

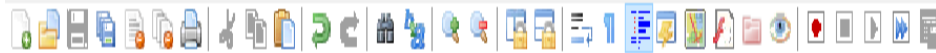
Page No. _____

```
void calculate(int credit, double mark, int j)
{
    totalCredits = totalCredits + credit;
    if (mark >= 90 && mark <= 100)
        SGPA = SGPA + (10 * credit);
    else if (mark >= 80 && mark <= 89)
        SGPA = SGPA + (9 * credit);
    else if (mark >= 70 && mark <= 79)
        SGPA = SGPA + (8 * credit);
    else if (mark >= 60 && mark <= 69)
        SGPA = SGPA + (7 * credit);
    else
        System.out.println("Failed + (j+1)");
}
```

```
void Display()
{
    System.out.println("Details:");
    System.out.println("USN: " + USN);
    System.out.println("Name: " + Name);
    System.out.println("SGPA: " + (SGPA / totalCredits));
}
}
```

class Main

```
public static void main(String args[])
{
    Student s1 = new Student();
}
```

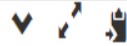



```
1  import java.util.*;
2  class Student
3  {
4      private String USN;
5      private String name;
6      private int n;
7      private double SGPA = 0;
8      private int totalCredits = 0;
9      private int credits[];
10     private double marks[];
11     Scanner in = new Scanner(System.in);
12
13     void accept()
14     {
15         System.out.println("Enter USN of the student");
16         USN = in.nextLine();
17         System.out.println("Enter Name of the student");
18         name = in.nextLine();
19         System.out.println("Enter number of subjects");
20         n = in.nextInt();
21         credits = new int[n];
22         marks = new double[n];
23         System.out.println("Details of the subjects:");
24         for(int i=0;i<n;i++)
25         {
26             System.out.println("Enter credits for subject "+(i+1));
27             credits[i] = in.nextInt();
28             System.out.println("Enter marks for subject "+(i+1));
29             marks[i] = in.nextInt();
30             Calculate(credits[i],marks[i],i);
31         }
32     }
33
34     void Calculate(int credit,double mark,int j)
35     {
36         totalCredits = totalCredits + credit;
37         if(mark>=90&&mark<=100)
38             SGPA = SGPA + (10*credit);
39         else if(mark>=80 && mark<=89)
40             SGPA = SGPA + (9*credit);
41         else if(mark>=70&&mark<=79)
42             SGPA = SGPA + (8*credit);
43         else if(mark>=60&&mark<=69)
```




labprog1.java x extraprog2.java x evenodd.java x indicesarray.java x Student.java x

```
27      credits[i] = in.nextInt();
28      System.out.println("Enter marks for subject "+(i+1));
29      marks[i] = in.nextInt();
30      Calculate(credits[i],marks[i],i);
31  }
32  }
33
34
35  void Calculate(int credit,double mark,int j)
36  {
37      totalCredits = totalCredits + credit;
38      if(mark>=90&&mark<=100)
39          SGPA = SGPA + (10*credit);
40      else if(mark>=80 && mark<=89)
41          SGPA = SGPA + (9*credit);
42      else if(mark>=70&&mark<=79)
43          SGPA = SGPA + (8*credit);
44      else if(mark>=60&&mark<=69)
45          SGPA = SGPA + (7*credit);
46      else if(mark>=50 && mark<=59)
47          SGPA = SGPA + (6*credit);
48      else if(mark>=40&&mark<=49)
49          SGPA = SGPA + (5*credit);
50      else
51          System.out.println("Failed in Subject "+(j+1));
52  }
53
54
55  void Display()
56  {
57      System.out.println("Details of the Student");
58      System.out.println("USN: "+USN);
59      System.out.println("Name :"+name);
60      System.out.println("SGPA of Student "+(SGPA/totalCredits));
61  }
62  }
63  }
64  class Main {
65  public static void main(String args[]) {
66      Student s1 = new Student();
67      s1.accept();
68      s1.Display();
69  }
70  }
```

Enter USN of the student

1bmhjk23

Enter Name of the student

SREEJA

Enter number of subjects

5

Details of the subjects:

Enter credits for subject 1

2

Enter marks for subject 1

80

Enter credits for subject 2

4

Enter marks for subject 2

90

Enter credits for subject 3

4

Enter marks for subject 3

90

Enter credits for subject 4

2

Enter marks for subject 4

89

Enter credits for subject 5

2

Enter marks for subject 5

78

Details of the Student

USN: 1bmhjk23

Name :SREEJA

SGPA of Student 9.428571428571429

...Program finished with exit code 0

Press ENTER to exit console.